

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000450

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C22B 15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 04050925 A1 (OUTOKUMPU OYJ), 17 June 2004 (17.06.2004), whole document --	1-11
X	US 4152142 A (WILLIAM J. SCHLITT, III ET AL), 1 May 1979 (01.05.1979), column 5, line 20 - line 36, figure 1 --	1-2,4-11
A	US 3632308 A (LAWRENCE C. KLEIN ET AL), 4 January 1972 (04.01.1972), claim 1 --	1-11
A	US 3868440 A (KENNETH O. LINBLAD ET AL), 25 February 1975 (25.02.1975), abstract --	1-11

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

10 November 2004

Date of mailing of the international search report

12-11-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Mårten Hulthén/MP

Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000450

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CA 2363969 A1 (CURLLOOK, WALTER ET AL), 26 May 2003 (26.05.2003), figures 2-3, abstract --	1-11
A	PATENT ABSTRACTS OF JAPAN vol. 200, no. 014, 5 March 2001 (05-03-2001) & JP 2000313924 A (NIPPON MINING & METALS CO LTD) 14 November 2000 (2000-11-14) abstract --	1-11
A	US 5108495 A (SEPPO O. HEIMALA ET AL), 28 April 1992 (28.04.1992), abstract -- -----	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/10/2004

International application No.

PCT/FI 2004/000450

WO	04050925	A1	17/06/2004	NONE		
US	4152142	A	01/05/1979	NONE		
US	3632308	A	04/01/1972	NONE		
US	3868440	A	25/02/1975	CA	1024747 A	24/01/1978
CA	2363969	A1	26/05/2003	NONE		
US	5108495	A	28/04/1992	AU	615295 B	26/09/1991
				AU	3456289 A	16/11/1989
				CA	1337742 A,C	19/12/1995
				FI	82773 B,C	31/12/1990
				FI	882261 A	14/11/1989
				MX	170755 B	13/09/1993